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 1 [Generalized file system dependencies](#)
[Christopher Frost](#), [Mike Mammarella](#), [Eddie Kohler](#), [Andrew de los Reyes](#), [S Andrew Matsuoka](#), [Lei Zhang](#)

October 2007 SOSP '07: Proceedings of twenty-first ACM SIGOPS symposium on operating systems principles

Publisher: ACM

 Full text available: Pdf (361.95 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

Bibliometrics: Downloads (6 Weeks): 53, Downloads (12 Months): 368, Citations: 1

Reliable storage systems depend in part on "write-before" relationships. Changes to stable storage are delayed until other changes commit. A join system, for example, must commit a journal transaction before applying transaction's ...

Keywords: dependencies, file systems, journaling, soft updates

Also published in:

October 2007 SIGOPS Operating Systems Review Volume 41 Issue 6

 2 [Heap reference analysis using access graphs](#)
[Uday P. Khedker](#), [Amitabha Sanyal](#), [Amey Karkare](#)

 November 2007 Transactions on Programming Languages and Systems
Volume 30 Issue 1

Publisher: ACM

 Full text available: Pdf (999.69 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

Bibliometrics: Downloads (6 Weeks): 19, Downloads (12 Months): 306, Citations: 1

Despite significant progress in the theory and practice of program analysis, the properties of heap data has not reached the same level of maturity as that of static and stack data. The spatial and temporal structure of stack and static data is well understood, and the analysis of static data is well understood.

Keywords: Aliasing, data flow analysis, heap references, liveness

 3 [Sony Pictures Imageworks](#)
[Parag Havaladar](#)

July 2006 SIGGRAPH '06: SIGGRAPH 2006 Courses

Publisher: ACM

 Full text available: Pdf (1.59 MB) Additional Information: [full citation](#), [abstract](#), [references](#)

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Modeling a face and rendering it in a manner that appears realistic is a task in itself, and remarkable progress to achieve realistic looking faces has been made from modeling perspective [1, 6, 13, 15, 16, 2] as well as a rendering perspective

4 Redundancy and information leakage in fine-grained access control

 Govind Kabra, Ravishankar Ramamurthy, S. Sudarshan

June 2006 SIGMOD '06: Proceedings of the 2006 ACM SIGMOD international conference on Management of data

Publisher: ACM

Full text available:  Pdf (340.16 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

Bibliometrics: Downloads (6 Weeks): 14, Downloads (12 Months): 126, Citation

The current SQL standard for access control is coarse grained, in that it allows all rows of a table or none. Fine-grained access control, which allows control over the granularity of individual rows, and to specific columns within ...

Keywords: fine-grained access control, information leakage, query optimization, redundancy

5 Uniqueness inference for compile-time object deallocation

 Sigmund Cheren, Radu Rugină

October 2007 ISMM '07: Proceedings of the 6th international symposium on Memory management

Publisher: ACM

Full text available:  Pdf (263.29 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 47, Citation (

This paper presents an analysis and transformation for individual object Java programs. First, we propose a uniqueness inference algorithm that identifies variables and object fields that hold unique references. The algorithm pro

Keywords: compile-time memory management, individual object deallocation, destructors, program transformations, uniqueness inference

6 Probabilistic Predicate-Aware Modulo Scheduling

Mikhail Smelyanskiy, Scott Mahlke, Edward S. Davidson

March 2004 CGO '04: Proceedings of the international symposium on Code generation and optimization: feedback-directed and runtime optimization

Publisher: IEEE Computer Society

Full text available:  Pdf (365.00 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

Bibliometrics: Downloads (6 Weeks): 13, Downloads (12 Months): 35, Citation

Predicated execution enables the removal of branches by converting segmented branching code into sequences of conditional operations. An important side effect of this transformation is that the compiler must unconditionally assign resource usage to predicated ...

Dataflow Predication

Aaron Smith, Ramadass Nagarajan, Karthikeyan Sankaralingam, Robert M. Burger, Stephen W. Keckler, Kathryn S. McKinley

December 2006 MICRO 39: Proceedings of the 39th Annual IEEE/ACM International Symposium on Microarchitecture

Publisher: IEEE Computer Society

Full text available:  Pdf (200.61 KB) Additional Information: [full citation](#), [abstract](#), [reference terms](#)

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 72, Citation (


Predication facilitates high-bandwidth fetch and large static scheduling that typically been too complex to implement comprehensively in out-of-order microarchitectures. This paper describes dataflow predication, which instruction ...

8 Compiling for EDGE Architectures

Aaron Smith, Jon Gibson, Bertrand Maher, Nick Nethercote, Bill Yoder, Doug Kathryn S. McKinley, Jim Burrill

March 2006 CGO '06: Proceedings of the International Symposium on Code Optimization


Publisher: IEEE Computer Society

Full text available:  Pdf (501.59 KB) Additional Information: [full citation](#), [abstract](#), [reference terms](#)

Bibliometrics: Downloads (6 Weeks): 7, Downloads (12 Months): 45, Citation (


Explicit Data Graph Execution (EDGE) architectures offer the possibility of instruction-level parallelism with energy efficiency. In EDGE architecture, a program breaks a program into a sequence of structured blocks that the hardware

9 Region-based shape analysis with tracked locations

 Brian Hackett, Radu Rucina

January 2005 POPL '05: Proceedings of the 32nd ACM SIGPLAN-SIGACT Symposium on Principles of programming languages

Publisher: ACM

Full text available:  Pdf (205.67 KB) Additional Information: [full citation](#), [abstract](#), [reference terms](#)

Bibliometrics: Downloads (6 Weeks): 14, Downloads (12 Months): 79, Citation (

This paper proposes a novel approach to shape analysis: using local reasoning about individual heap locations instead of global reasoning about entire heap spaces. We present an inter-procedural shape analysis algorithm for languages with

Keywords: memory leaks, memory management, shape analysis, static analysis

Also published in:

January 2005 SIGPLAN Notices Volume 40 Issue 1

10 A tiny and efficient wireless ad-hoc protocol for low-cost sensor networks

Pawel Gburzynski, Bozena Kaminska, Wlodek Olesinski

April 2007 DATE '07: Proceedings of the conference on Design, automation and test in Europe


Publisher: EDA Consortium

Full text available:  Pdf (183.77 KB) Additional Information: [full citation](#), [abstract](#), [referen](#)


Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 60, Citation (

We introduce a simple ad-hoc routing scheme that operates in the true networking, i.e., in a modeless fashion, without neighborhood discovery to-point forwarding, while offering a high (and tunable) degree of reliab

11 [Using certified policies to regulate E-commerce transactions](#)

 [Victoria Ungureanu](#)

February 2005 Transactions on Internet Technology (TOIT) , Volume 5 Is
Publisher: ACM


Full text available:  Pdf (404.92 KB) Additional Information: [full citation](#), [abstract](#), [referen](#)
[terms](#), [review](#)

Bibliometrics: Downloads (6 Weeks): 15, Downloads (12 Months): 116, Citatio

E-commerce regulations are usually embedded in mutually agreed upon
Generally, these contracts enumerate agents authorized to participate in
and spell out such things like rights and obligations of each partner, and

Keywords: Contract terms, Enforcement, Scalability

12 [Compile-time deallocation of individual objects](#)

 [Sigmund Cherem](#), [Radu Rugină](#)

June 2006 I SMM '06: Proceedings of the 5th international symposium on M
management

Publisher: ACM


Full text available:  Pdf (211.39 KB) Additional Information: [full citation](#), [abstract](#), [referen](#)

Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 36, Citation (

This paper presents a static analysis and transformation system that en
deallocation of individual objects in Java programs. Given an input prog
automatically inserts *free* statements to deallocate individual objects. ..

Keywords: compile-time memory management, individual object deall
transformations, shape analysis

13 [The complexity of quantifier elimination and cylindrical algebraic dec](#)

 [Christopher W. Brown](#), [James H. Davenport](#)

July 2007 ISSAC '07: Proceedings of the 2007 international symposium or
algebraic computation

Publisher: ACM


Full text available:  Pdf (197.95 KB) Additional Information: [full citation](#), [abstract](#), [referen](#)

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 46, Citation (

This paper has two parts. In the first part we give a simple and construc
quantifier elimination in real algebra is doubly exponential, even when t
free variable and all polynomials in the quantified input are linear. The .

Keywords: cylindrical algebraic decomposition, quantifier elimination

14 [Analysis of the conditional skip instructions of the HP precision archi](#)

 [Jonathan P. Vogel, Bruce K. Holmer](#)

November 1994 MICRO 27: Proceedings of the 27th annual international symposium on Microarchitecture


Publisher: ACM

Full text available:  [Pdf](#) (848.20 KB) Additional Information: [full citation](#), [abstract](#), [reference terms](#)

Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 10, Citation (

The HP-PA instruction set allows any arithmetic instruction to conditionally execute the following instruction based on the result of the arithmetic calculation. We analyze this architectural feature and measured its performance benefit on a set of benchmarks.

15 [Canonical abstraction for outerjoin optimization](#)

 [Jun Rao, Hamid Pirahesh, Calisto Zuzarte](#)

June 2004 SIGMOD '04: Proceedings of the 2004 ACM SIGMOD international conference on Management of data


Publisher: ACM

Full text available:  [Pdf](#) (197.25 KB) Additional Information: [full citation](#), [abstract](#), [reference terms](#)

Bibliometrics: Downloads (6 Weeks): 7, Downloads (12 Months): 60, Citation (


Outerjoins are an important class of joins and are widely used in various database applications. It is challenging to optimize queries that contain outerjoins because outerjoins do not always commute with inner joins. Previous work has shown that this problem is NP-hard.

16 [VRML with constraints](#)

 [Stephan Diehl, Jörg Keller](#)

February 2000 VRML '00: Proceedings of the fifth symposium on Virtual reality '99 language (Web3D-VRML)

Publisher: ACM

Full text available:  [Pdf](#) (288.16 KB) Additional Information: [full citation](#), [abstract](#), [reference terms](#)





Bibliometrics: Downloads (6 Weeks): 7, Downloads (12 Months): 29, Citation (

In this paper we discuss the benefits of extending VRML by constraints in a new way based on prototypes and scripting to implement this extension in an easy-to-use, extensible and it considerably increases the expressivity of the language.

Keywords: VRML, animation, programming

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